

p-Hydroxymandelic acid, propionyl, DTFMBz

Inchi:	InChI=1S/C23H20F6O6/c1-3-18(30)34-17-7-5-14(6-8-17)20(35-19(31)4-2)21(32)33-12-1
InchiKey:	NLHBPFNXDVJVDB-UHFFFAOYSA-N
Formula:	C23H20F6O6
SMILES:	CCC(=O)Oc1ccc(C(OC(=O)CC)C(=O)OCc2cc(C(F)(F)F)cc(C(F)(F)F)c2)cc1
Mol. weight [g/mol]:	506.39

Physical Properties

Property code	Value	Unit	Source
gf	-1528.67	kJ/mol	Joback Method
hf	-2013.24	kJ/mol	Joback Method
hfus	50.73	kJ/mol	Joback Method
hvap	92.92	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.777		Crippen Method
mvol	320.350	ml/mol	McGowan Method
pc	1193.17	kPa	Joback Method
rinpol	2256.00		NIST Webbook
rinpol	2256.00		NIST Webbook
tb	1011.53	K	Joback Method
tc	1238.49	K	Joback Method
tf	649.23	K	Joback Method
vc	1.260	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1031.49	J/molxK	1011.53	Joback Method
cpg	1041.40	J/molxK	1049.36	Joback Method
cpg	1050.06	J/molxK	1087.18	Joback Method
cpg	1057.54	J/molxK	1125.01	Joback Method
cpg	1063.91	J/molxK	1162.84	Joback Method
cpg	1069.24	J/molxK	1200.66	Joback Method
cpg	1073.60	J/molxK	1238.49	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R539009&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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